	Application No.	Applicant(s)	
Notice of Allowability	10/614,159	TOMIZAWA ET AL.	
	Examiner	Art Unit)
	An H. Do	2853	8
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to Application filed on C	(OR REMAINS) CLOSED in the commetted in	n this application. If not included unication will be mailed in due co	ourse. THIS
•	<u>10 July 2003</u> .		
2. The allowed claim(s) is/are <u>1-18</u> .			
3. $igotimes$ The drawings filed on <u>08 July 2003</u> are accepted by the E	xaminer.		
4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 2. Certified copies of the priority documents hav 3. Copies of the certified copies of the priority documents hav 3. Copies of the certified copies of the priority documents hav 3. Ceptified copies of the priority documents hav 4. Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON® THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminformal pattent APPLICATION (PTO-152) which giv 6. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 7. DEPOSIT OF and/or INFORMATION about the deposite attached Examiner's comment regarding REQUIREMENT	e been received in Application comments have been received of this communication to file MENT of this application. Initial. Note the attached EXT res reason(s) why the oath of the submitted. It is a submitted of the submitted of the submitted. It is a submitted of the submit	on No In this national stage application In a reply complying with the requirement AMINER'S AMENDMENT or NO Indeclaration is deficient. W (PTO-948) attached In the Office action of The drawings in the front (not the beautiful or	irements TICE OF
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 6/1/04&9/26/03) 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. Interview S Paper No. 7. Examiner's	Informal Patent Application (PTO-Summary (PTO-413), /Mail Date S Amendment/Comment Statement of Reasons for Allow Stephen D. Meler Primary Examine	ance

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statements (IDS) submitted on 26 September 2003 and 01 July 2004 were filed and are being considered by the examiner.

Allowable Subject Matter

- 3. Claims 1-18 are allowed.
- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chan et al (US 4,694,308) disclose a thermal ink jet head having an all metal orifice plate including ink flow ports and contoured walls forming nozzles. Touge et al (US 6,540,335) disclose an inkjet printhead having a plurality of ink discharge ports, flow paths and electrothermal converting elements. Eida et al (US 6,685,301) disclose an inkjet head with a liquid repellent member having discharge ports on a substrate. Ikegame et al (US 6,659,588) disclose a liquid discharge head having a plurality of liquid paths and discharge openings formed in an orifice plate.

Reasons for Allowance

5. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claim 1 is the inclusion of the limitations of an ink jet record head that includes a discharge port portion having a first discharge port having a cross section approximately constant against a discharge axis; and a

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second discharge port portion contiguous to the first discharge port portion with an uneven portion and communicating with said bubbling chamber while having the cross section parallel with the principal surface of said element substrate and larger than the cross section of the first discharge port portion, and a distance of the uneven portion farthest from a supply direction of said second discharge port portion is shorter than the distance of said uneven portion in an arrangement direction of said discharge ports. It is these limitations found in each of the claims, as they are claimed in the combination of, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to An H. Do whose telephone number is 571-272-2143. The examiner can normally be reached on Monday-Friday (Flexible).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AD

November 24, 2004

Stephen D. Meler Primary Examiner